



## Virtual prototypes supporting novel and remote product design

GH Dynamics Ltd is a Northwest based aerospace company with expertise and a focus around the development of Unmanned Aircraft Systems for industrial applications, in particular, to support the challenging requirements of offshore wind turbine inspections.

### THE CHALLENGE

GH Dynamics Ltd approached the VEC to support the product development of their innovative Unmanned Air System (UAS).

Utilising the VEC's in-house virtual engineering expertise and with access to specialist facilities including the Virtual Engineering Simulation Laboratory (VESL), GH Dynamic were provided with design support for their system, along with the development of virtual models and simulation expertise to test and validate the design.

In addition, the VEC was able to provide a 3D visualisation of the outcome by facilitating a design review in the VEC's Visualisation Virtual Reality Laboratory (VVRL).

### THE SOLUTION

The findings from this project have been used to support strategies for leveraging product performance and new patented innovations.

The project has also provided support material to attract technology funders to support continued development of this product.

### THE BENEFITS

*"The VEC team have been extremely knowledgeable and helpful. They have helped us with modelling and kept us up to date with items of interest. They are readily approachable and open to new ideas...the work they have carried out will help us to win further investment for our product and provide a foundation for increasing the design space"*

-Alex Glass, Director for GH Dynamics